



COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

SIXTH FLOOR,
PRUDENTIAL BUILDING,
195 NORTH TERRACE,
ADELAIDE

RURAL PRODUCTION

SOUTH AUSTRALIA

YEAR ENDED 31ST MARCH 1966

SCOPE

This bulletin summarizes detailed information published in the bulletins "Livestock, 31st March 1966" and "Cereals, Season 1965-66" recently issued from this Bureau, and shows in addition particulars concerning areas and yields of other crops, rural employment, use of artificial fertilizers, machinery on rural holdings, and direct oversea exports of rural produce. It also lists some South Australian records associated with rural production.

In tables where figures have been rounded, discrepancies between totals and sums of components are due to rounding.

AREA AND UTILIZATION OF HOLDINGS

The area of 13,054,000 acres under cultivation (crops, sown pastures, and fallow) was 319,000 acres more than the previous highest of 12,735,000 acres in 1964-65. Although some variation occurred in individual crops, the total area under crop increased by only 3,000 acres from 5,290,000 acres in 1964-65.

The area of sown pasture from 1920 to 1950 increased steadily from 20,000 to 1,066,000 acres but has since increased very rapidly. In 1965-66 the area of sown pasture was a record 6,561,000 acres.

TABLE 1 - AREA AND UTILIZATION OF RURAL HOLDINGS, SOUTH AUSTRALIA

Particulars	1961-62	1962-63	1963-64	1964-65	1965-66
	'000 Acres				
Cereals for grain	3,856	4,093	4,457	4,309	4,334
Field peas (grain)	29	32	30	34	30
Hay	209	288	358	314	299
Green forage	273	367	378	462	474
Vineyards	58	58	59	59	59
Orchards	38	41	42	43	44
Vegetables (a)	17	17	16	16	17
Other crops	29	36	40	53	37
Total crops	4,509	4,932	5,380	5,290	5,293
Sown pasture -					
Lucerne	516	563	595	674	737
Clover & other	4,729	4,795	4,979	5,540	5,824
Fallow land	1,188	1,158	1,114	1,231	1,201
Balance of holdings	145,955	145,249	146,837	144,219	146,339
Total area	156,897	156,697	158,905	156,954	159,394

(a) Includes areas of potatoes grown for seed but excludes areas of other vegetables grown for animal forage or seed.

RURAL
EMPLOYMENT

The following table shows for each of the last three years the number of persons employed in March and the value of wages paid (including keep where applicable) during the twelve months ended 31st March.

TABLE 2 - RURAL EMPLOYMENT (a), SOUTH AUSTRALIA

Particulars	1964		1965		1966	
	Males	Females	Males	Females	Males	Females
Permanent workers -						
Owners, occupiers, etc.	23,553	717	23,136	714	23,035	525
Unpaid relatives	1,396	204	1,207	162	912	69
Paid employees	8,268	501	8,247	456	8,172	393
Wages paid \$'000	12,836	503	13,491	485	14,064	439
Temporary workers (b) -						
Paid employees	12,496	5,339	10,984	5,310	10,585	5,178
Wages paid (c) \$'000	9,066	952	9,952	1,157	10,407	1,066

- (a) Excludes females engaged mainly in domestic duties and other workers engaged only part time.
 (b) Working full time during period of engagement.
 (c) Excludes payments for construction or development work.

ARTIFICIAL
FERTILIZERS
USED

Of the 252,000 tons of superphosphate used on crops 17,000 tons contained trace elements while 42,000 tons with trace elements were included in the 295,000 tons used on pastures. There has been very little change in recent years in the proportion of area under crop fertilized and in the quantity of fertilizer per acre applied to crops and pasture.

TABLE 3 - PRINCIPAL CROPS AND PASTURE FERTILIZED, SOUTH AUSTRALIA, 1965

Particulars	Area Fertilized	Fertilizers Used		Total per Acre
		Superphosphate	Other	
	Acres	Tons	Tons	Lb.
Wheat (all purposes)	2,741,355	139,975	1,058	115.24
Vegetables	13,255	3,610	4,123	1306.82
Fruit and vines	59,257	4,623	6,694	427.80
Other crops	2,055,443	104,093	956	114.48
Total crops	4,869,310	252,301	12,831	121.97
Pasture	5,092,605	295,430	1,400	130.56
Grand total	9,961,915	547,731	14,231	126.36

TABLE 4 - CROPS AND PASTURE FERTILIZED, SOUTH AUSTRALIA

Particulars	Unit	1962	1963	1964	1965
Crops fertilized	'000 acres	4,415	4,788	4,775	4,869
Fertilizer used	ton	221,011	238,905	254,268	265,132
Cropped area fertilized	%	89.5	89.0	90.3	92.0
Fertilizer per acre	lb.	112.1	111.8	119.28	121.97
Pasture fertilized	'000 acres	3,750	3,993	4,714	5,093
Fertilizer used	ton	209,551	226,678	274,558	296,830
Fertilizer per acre	lb.	125.2	127.2	130.45	130.56

AREA AND
YIELD OF
CROPS

Tables 5, 6, 7, and 8, show details of areas and yields of the principal crops grown in South Australia during 1965-66 compared with similar details for previous years.

TABLE 5 - CEREALS AND HAY : AREA AND YIELD, SOUTH AUSTRALIA

Particulars	Unit	1961-62	1962-63	1963-64	1964-65	1965-66
Wheat -						
Area for grain	'000 acres	2,229	2,595	2,802	2,727	2,745
Yield	'000 bush.	33,854	38,339	53,971	52,817	39,976
Yield per acre	bushel	15.19	14.77	19.26	19.37	14.56
Barley -						
Area for grain	'000 acres	1,271	1,053	1,123	1,095	1,098
Yield	'000 bush.	21,292	18,005	24,337	26,932	18,514
Yield per acre	bushel	16.75	17.10	21.67	24.60	16.86
Oats -						
Area for grain	'000 acres	324	416	501	444	455
Yield	'000 bush.	4,391	5,770	9,149	8,977	5,622
Yield per acre	bushel	13.57	13.88	18.27	20.23	12.37
Rye -						
Area for grain	'000 acres	32	29	31	44	36
Yield	'000 bush.	167	144	153	262	186
Yield per acre	bushel	5.18	4.92	4.88	5.96	5.11
Field Peas -						
Area for grain	'000 acres	29	32	30	34	30
Yield	'000 bush.	256	392	490	496	242
Yield per acre	bushel	8.93	12.10	16.25	14.67	8.09
Hay (all kinds) -						
Area	'000 acres	209	287	358	314	299
Yield	'000 tons	286	406	488	487	368
Yield per acre	ton	1.37	1.41	1.37	1.55	1.23

TABLE 6 - VEGETABLES (a) : AREA AND PRODUCTION, SOUTH AUSTRALIA

Vegetable	Acres		Yields		
	1964-65	1965-66	Unit	1964-65	1965-66
Beans - French	220	183	bush.	50,061	46,577
Beetroot	90	88	ton	723	769
Cabbage	330	365	doz.	155,473	164,405
Carrots	318	331	ton	4,464	4,453
Cauliflowers	498	549	doz.	197,246	211,396
Celery	289	289	crate	197,658	203,772
Green peas	4,333	4,075	bush.	301,643	245,024
Lettuce	422	459	case	225,062	239,086
Melons	257	385	ton	1,310	2,096
Onions	1,146	1,148	ton	11,061	10,069
Parsnips	53	56	ton	579	570
Potatoes (b)	5,247	5,748	ton	48,400	56,471
Pumpkins, etc.	828	1,126	ton	5,081	6,425
Tomatoes	956	1,083	bush.	689,038	737,119
Turnips	197	240	ton	1,396	2,018
All other	413	441	..	..	..
Total	15,597	16,564	..	..	..

(a) Grown for human consumption. Excludes vegetables grown for animal forage or seed (see also footnote (b)).

(b) Includes potatoes grown for seed.

TABLE 7 - VINEYARDS : AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Acres Bearing		Yield		
	1964-65	1965-66	Unit	1964-65	1965-66
Vines -					
Wine grapes	40,155	40,713	ton	158,340	129,855
Table grapes	207	258	ton	1,167	1,210
Drying grapes	13,024	12,563	ton	74,790	52,737
Total	53,386	53,534	ton	234,297	183,802
Produce -					
Wine (a)	..	..	'000 gal.	28,022	(b)22,559
Dried fruit -					
Currants	..	..	cwt	100,875	63,063
Sultanas	..	..	cwt	264,054	193,794
Raisins	..	..	cwt	62,440	44,498

(a) Excludes fortifying spirits added. (b) Preliminary.

The total area of orchards has been increasing steadily in recent years, and records have been established in each year from 1956-57 (33,998 acres) to 1965-66 (43,830 acres). In 1965-66 record yields of almonds and peaches were obtained.

TABLE 8 - ORCHARDS : BEARING TREES AND YIELD, SOUTH AUSTRALIA

Variety	No. of Bearing Trees		Yield		
	1964-65	1965-66	Unit	1964-65	1965-66
Almonds	291,933	291,090	cwt	18,208	19,664
Apples	550,035	535,721	bush.	1,624,706	1,307,543
Apricots	366,481	365,443	bush.	1,169,864	826,748
Cherries	48,559	49,884	bush.	41,645	54,221
Citrus -					
Lemons, limes	19,413	20,649	bush.	41,641	42,827
Navel oranges	347,924	361,187	bush.	1,427,512	1,344,533
Valencia oranges	387,016	407,116	bush.	1,725,958	1,251,961
Other citrus	59,179	65,460	bush.	242,217	271,884
Figs	9,854	8,538	bush.	15,269	11,700
Nectarines	14,436	14,861	bush.	30,773	35,515
Olives	36,932	37,036	cwt	(a) 10,004	(a) 12,412
Peaches	385,239	394,864	bush.	1,173,048	1,302,536
Pears	174,471	172,549	bush.	574,225	508,748
Plums, prunes	91,665	85,283	bush.	109,607	95,882

(a) Includes olives grown in parklands and reserves.

BEEKEEPING

The production of honey and beeswax fluctuates considerably from year to year, depending upon seasonal conditions. The average yield of honey per productive hive increased from 111 lb. in 1964-65 to 152 lb. in 1965-66.

TABLE 9 - BEEKEEPING : HIVES AND PRODUCTION (a), SOUTH AUSTRALIA

Particulars	1961-62	1962-63	1963-64	1964-65	1965-66
Beekeepers	906	842	857	781	793
Productive hives	61,545	51,010	63,142	58,728	65,522
Unproductive hives	10,162	18,590	8,535	13,900	9,333
Honey lb.	8,404,895	4,147,215	9,721,492	6,526,587	9,929,399
Beeswax lb.	123,298	56,199	134,008	89,810	136,429

(a) Excludes particulars for producers having less than 5 hives.

LIVESTOCK

The following table shows details of numbers of and production from livestock. To 1963 cattle were classified under the headings Dairy cattle and Beef cattle but in 1964 they were classified as "Used for the production of milk" or "Used mainly for meat production". Because of the different method of classification used from 1964, the figures (except for total cattle) should not be compared directly with those in previous years.

TABLE 10 - LIVESTOCK : NUMBERS AND PRODUCTION, SOUTH AUSTRALIA

Particulars	1961-62	1962-63	1963-64	1964-65	1965-66
Stock at end of March -	'000				
Sheep	16,415	15,737	16,402	17,289	17,993
Cattle -					
Dairy cows (a)	183	190	(c)	(c)	(c)
Other dairy	92	91	(c)	(c)	(c)
Beef	385	398	(c)	(c)	(c)
Cows for milk production (b)	(c)	(c)	192	189	182
Other cattle for milk production	(c)	(c)	78	73	72
Cattle for meat production	(c)	(c)	424	435	436
Horses	26	25	(c)	(c)	(c)
Pigs	170	145	153	196	224
Poultry	2,132	2,029	2,159	2,199	2,320
Lambing (d) -					
Ewes mated	7,076	6,934	6,850	7,191	7,505
Lambs marked	5,644	5,443	5,402	5,739	5,954
Slaughterings (e) -					
Sheep	1,645	1,748	1,568	1,581	1,981
Lambs	1,495	1,718	1,428	1,519	1,493
Cattle and calves	201	254	279	275	277
Pigs	232	235	213	241	298
Production -	'000 Lb.				
Wool clip	192,205	189,854	194,787	200,059	212,745
Wool production (e)(f)	206,984	207,344	210,500	215,736	(g) 229,640
Butter (e)	16,861	16,608	16,791	17,392	16,326
Cheese (e)	32,835	33,967	34,236	38,836	36,281
Bacon and ham (e)	7,475	7,514	8,076	8,562	(g) 9,195
	'000 Gallons				
Milk (e)	95,504	95,378	97,523	102,330	(g) 99,897

(a) Includes cows, "in milk" and "dry" and "springing" heifers. (b) Includes springing heifers and house cows. (c) Not collected.

(d) Calendar year first stated. (e) Year ended 30th June.

(f) Includes wool exported on skins and dead and fellmongered wool. (g) Preliminary.

MACHINERY

Numbers of principal machines on rural holdings at 31st March in each of the last five years are shown in the following table:-

TABLE 11 - MACHINERY ON RURAL HOLDINGS, SOUTH AUSTRALIA

Particulars	1962	1963	1964	1965	1966
	Number				
Tractors - Wheeled	28,289	28,497	29,841	30,772	(a) 31,019
Crawler	3,499	3,174	3,390	3,392	(a) 3,012
Rotary hoes, rotary tillers	4,873	4,989	5,260	5,670	5,883
Fertilizer distributors	8,271	8,213	8,413	8,743	8,893
Drills and combines	20,086	20,316	20,358	20,785	20,790
Grain and seed harvesters	12,831	12,677	12,617	12,659	12,393
Hay balers	3,534	3,791	4,149	4,258	4,609
Forage harvesters	525	645	660	675	764
Milking machines - No.	7,707	7,553	7,438	7,328	7,040
Units	18,831	18,836	19,057	19,135	18,833
Shearing machines - No.	14,532	14,595	14,885	15,172	15,386
Stands	27,278	27,528	28,149	28,844	29,291

(a) Subject to revision. (b) Not collected.

PRODUCTION
RECORDS

New records were established in 1965-66 for the production of almonds, peaches, wool, the number of pigs, sheep, and lambs marked, and for the area under sown pasture.

TABLE 12 - RURAL INDUSTRY : RECORD PRODUCTION, NUMBERS, ETC., SOUTH AUSTRALIA

Item	Unit	Quantity	Year	Item	Unit	Quantity	Year
Cereals -				Livestock			
Total yield -				Numbers -			
Wheat	'000 bush.	53,971	1963-64	Sheep	'000	17,993	1966
Barley	'000 bush.	42,233	1960-61	Cattle	'000	697	1965
Oats	'000 bush.	11,992	1958-59	Horses	'000	284	1913
Yield/acre -				Pigs	'000	224	1966
Wheat (a)	bushel	23.56	1960-61	Production -			
Barley (a)	bushel	28.27	1958-59	Wool -			
Oats (a)	bushel	24.93	1958-59	Clip	'000 lb.	212,745	1965-66
Vineyards -				Production	'000 lb.	(c) 229,640	1965-66
Grapes (b)	ton	234,297	1964-65	Lambs marked	'000	5,954	1965
Currants	cwt	209,140	1943-44	Milk	'000 gal.	102,330	1964-65
Raisins	cwt	117,505	1953-54	Butter	'000 lb.	22,938	1939-40
Sultanas	cwt	333,300	1943-44	Cheese	'000 lb.	38,836	1964-65
Wine	'000 gal.	30,831	1961-62	Bacon & ham	'000 lb.	11,735	1945-46
Orchards -				Honey	'000 lb.	10,906	1948-49
Almonds	cwt	19,664	1965-66	Area under -			
Apples	'000 bush.	1,750	1940-41	Crop	'000 acres	5,426	1930-31
Apricots	'000 bush.	1,170	1964-65	Fallow	'000 acres	2,607	1932-33
Oranges	'000 bush.	3,250	1964-65	Sown pasture	'000 acres	6,561	1965-66
Peaches	'000 bush.	1,303	1965-66				
Pears	'000 bush.	574	1964-65				

- (a) Slightly greater yields per acre were recorded from small acreages over 100 years ago.
 (b) Includes fresh grapes used for drying.
 (c) Preliminary.

DIRECT
OVERSEA
EXPORTS

The following table shows the quantities of principal rural products exported overseas from South Australian ports during the last five years; OVERSEA EXPORTS VIA OTHER STATES ARE EXCLUDED.

TABLE 13 - RURAL PRODUCTS : PRINCIPAL OVERSEA EXPORTS, SOUTH AUSTRALIA

Commodity	Unit	1961-62	1962-63	1963-64	1964-65	1965-66(a)
Butter	'000 lb.	465	182	898	453	608
Cheese	'000 lb.	15,706	11,876	21,194	18,612	17,581
Eggs - In shell	'000 doz.	421	-	87	-	-
Not in shell	'000 lb.	864	62	54	-	560
Fruit, Dried - Currants	'000 lb.	5,225	3,025	4,092	6,548	5,266
Raisins	'000 lb.	14,510	16,050	23,403	21,337	27,760
Other	'000 lb.	3,427	4,106	5,024	4,186	5,807
Fresh - Apples	'000 bush.	324	363	426	466	103
Preserved, pulped	'000 lb.	21,130	14,884	28,613	29,809	46,633
Flour (including semolina)	ton	82,777	89,971	90,216	77,892	98,667
Grain - Wheat	'000 bush.	30,149	18,509	48,658	33,600	29,352
Barley	'000 bush.	24,768	6,875	13,450	13,736	6,198
Oats	'000 bush.	1,148	298	704	1,078	246
Honey	'000 lb.	3,069	2,067	1,791	947	1,534
Meat (lamb)	'000 lb.	5,465	15,336	8,828	10,570	7,294
Sheep skins	'000	3,161	3,377	3,220	3,367	3,534
Wine	'000 gal.	1,568	1,516	1,437	1,882	1,815
Wool - Greasy	'000 lb.	158,008	151,999	163,298	164,358	172,639
Other	'000 lb.	14,326	15,526	14,624	11,652	12,714

- (a) Preliminary.

D. L. J. AITCHISON

